



Interleukin-8 receptor A: SeqID: ENSP00000295683  
Sequence and pentamer URS distribution

- Title: Proteome Epitope Tags and Methods of Use  
 Thereof in Protein Modification Analysis  
 Inventors: Lee et al.  
 Serial No. 10/773,032  
 Express Mail Label EM 046052199 US  
 Replacement Sheet

MSNITTDPOMWDDLNFTGMPPADEDYSPCMLETETLNKVVIIAYALVFLLLGNSLVMIVLYSR

LAIVHATTRLTQKRHLVKFVCLGCWGLSMNLSPPFFLFRQAYHPNNNSSPVCYEVLGNDTAKWRMLVRLI

I.PHTFGFIVPLFVMLFCYGFTLRLTFKAHMGQKHAMRVIFAVVLIFLLCWLPYNLVLLVLLADTLMRTQV

I.QESCRERRNNTIGRALDATEILGFTLHSCLNPITYAFIGQNFRHGFLKILAMHGLVSKEFLARHRVTSYT

SSSVNVSSNL (SEQ ID NO. 546)

ENSP00000295683; list of pentamer URS peptides; (total number: 35) AHMGQ (SEQ ID NO. 547) AKWRM (SEQ ID NO. 548) AYHPN (SEQ ID NO. 549) CERRN (SEQ ID NO. 550) CLGCW (SEQ ID NO. 551) CYGFT (SEQ ID NO. 552) DLNFT (SEQ ID NO. 553) DPOMW (SEQ ID NO. 554) DTAKW (SEQ ID NO. 555) FCYGF (SEQ ID NO. 556) FKAHM (SEQ ID NO. 557) GQFTR (SEQ ID NO. 558) HTCGF (SEQ ID NO. 559) IWAAS (SEQ ID NO. 560) KWRMV (SEQ ID NO. 561) KYVVI (SEQ ID NO. 562) MCQHK (SEQ ID NO. 563) MPPAD (SEQ ID NO. 564) NFTGM (SEQ ID NO. 565) NGWTF (SEQ ID NO. 566) POMWD (SEQ ID NO. 567) PYNLV (SEQ ID NO. 568) QKHLA (SEQ ID NO. 569) QVWDF (SEQ ID NO. 570) QYFRE (SEQ ID NO. 571) TAJKW (SEQ ID NO. 572) TDPMQ (SEQ ID NO. 573) VCLCG (SEQ ID NO. 574) VCYEV (SEQ ID NO. 575) VMLFC (SEQ ID NO. 576) VNGWV (SEQ ID NO. 578) WFGT (SEQ ID NO. 579) WRWYL (SEQ ID NO. 580) YSPCM (SEQ ID NO. 581)

Figure 1

# Histamine H1 receptor: SeqID: ENSP00000273023

## Sequence and pentamer URS distribution

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MSLPNSSCLLEDK!MCEGNK!TTMASPQLMPLVVVLSTICLVTVGGLNLVLVYAVR!SER!K!LHTVGN  
LYIVSLSVAIDLIVGAVVMPMNNTIYLIMSK!WSLGR!PLCFLWLSMDYVASTASATISFSVFLC IDR!YR!  
SVQQPLR!YLK!YR!TK!TR!ASATIILGAWFLSFLWIPILGWNVHFMQTSVR!R!EDK!CETDFYDV  
TWFK!VMTAILNFYLPTLLMWEYAK!YK!AVR!OHCQHR!ELINR!SLPSFSEIK!LR!PENPK!G  
DAK!K!PGK!ESPWEVLK!R!K!PK!DAGGGSVLK!SPSQTPK!EMK!SPVVFQSEDDR!EVDK!LYC  
FPLDIVHMQAAAEGSSR!DYAVNR!SHGQLK!TDEQGLNTHGASEISEDOMLGDQSFSR!TDSDTT  
TETAPGK!GK!LR!SGSNTGLDYIK!FTWK!R!LR!SHSR!QYVSGLHMNR!ER!K!AAK!QLGFIMA  
AFILCWIPYFIFFMVIAFCK!NCCNEHHLHMFTIWLGYINSTLNPLIYPLCNENFK!K!TFK!R!ILHI  
R!S (SEQ ID NO. 582)

URS Penta-peptide: ALINF (SEQ ID NO. 583) CEGNK (SEQ ID NO. 584) CENEF (SEQ ID NO. 585) CWIPY (SEQ ID NO. 586) DFYDV (SEQ ID NO. 587)  
DOMLG (SEQ ID NO. 588) FILCU (SEQ ID NO. 589) FLVVI (SEQ ID NO. 590) FMQOT (SEQ ID NO. 591) FWLSM (SEQ ID NO. 592) GWNHF (SEQ ID NO.  
593) HLHMF (SEQ ID NO. 594) HMFTI (SEQ ID NO. 595) HTVGN (SEQ ID NO. 596) IFFMV (SEQ ID NO. 597) ILCWT (SEQ ID NO. 598) LLMNK (SEQ ID  
NO. 599) LWFYA (SEQ ID NO. 600) MCEGN (SEQ ID NO. 601) MDYVA (SEQ ID NO. 602) METIW (SEQ ID NO. 603) MLWY (SEQ ID NO. 604) NCCNE  
(SEQ ID NO. 605) NHFMQ (SEQ ID NO. 606) PLCLF (SEQ ID NO. 607) SWEE (SEQ ID NO. 608) VIAFC (SEQ ID NO. 609) WFYAK (SEQ ID NO. 610)  
WNHFM (SEQ ID NO. 611) WVPFI (SEQ ID NO. 612) YCFPL (SEQ ID NO. 613)

: trypsin cutting site, \_\_\_\_\_ : URS Penta-peptide

Figure 2

Figure 3

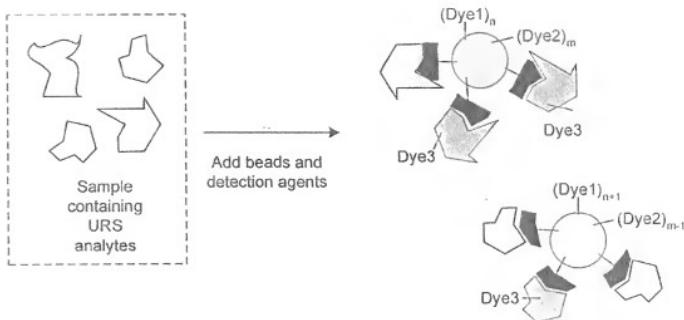


Figure 4

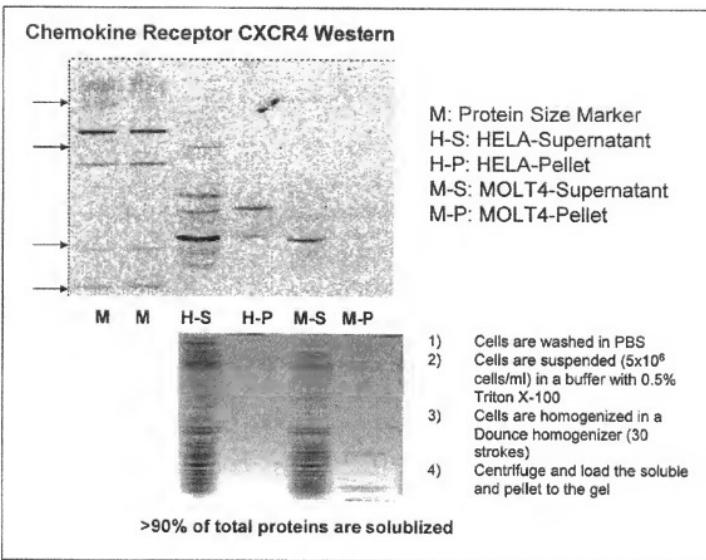


Figure 5

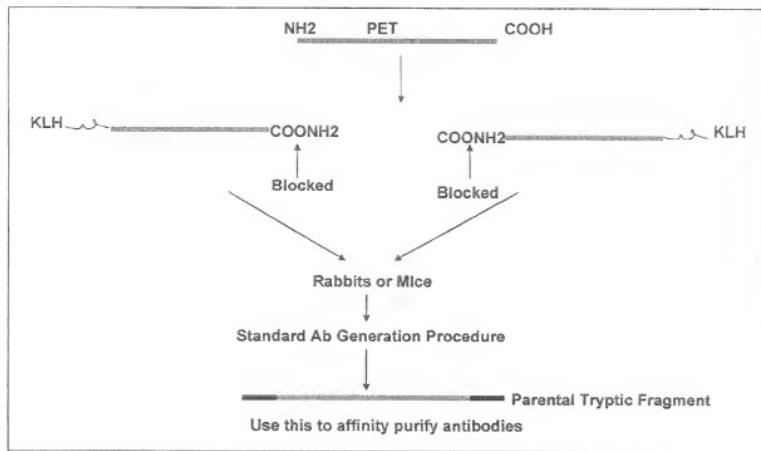


Figure 6

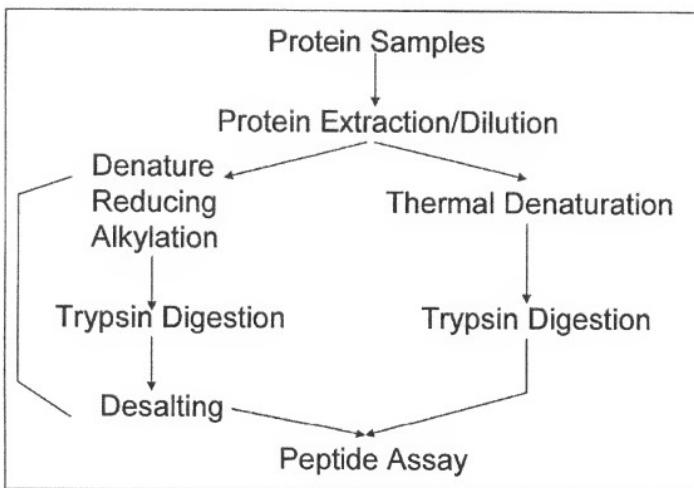


Figure 7

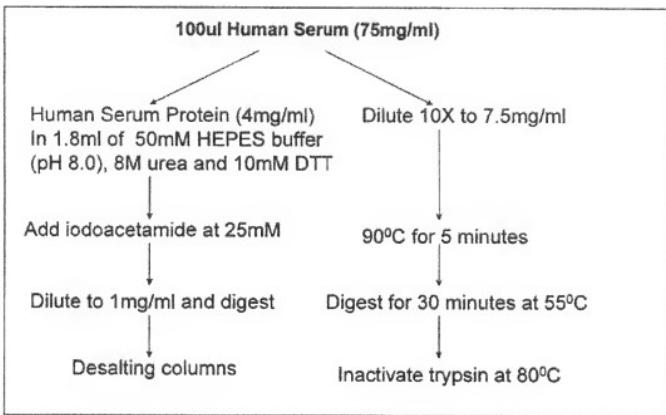


Figure 8

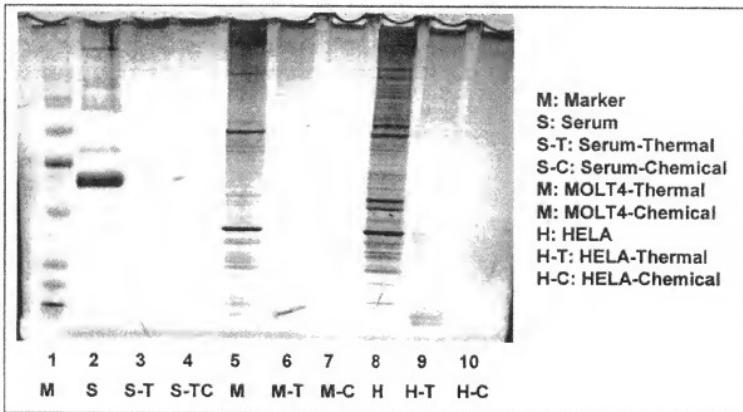


Figure 9

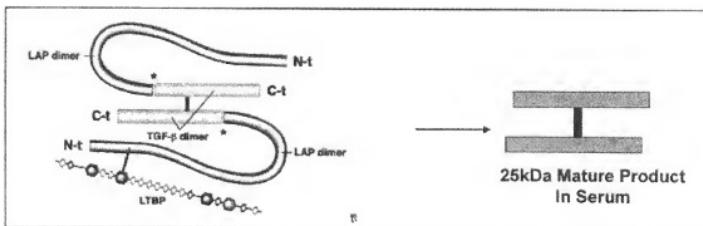


Figure 10

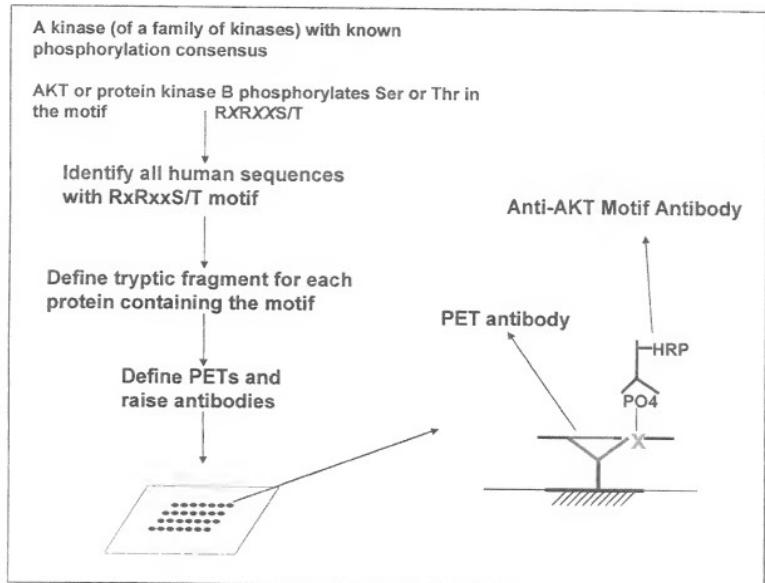


Figure 11

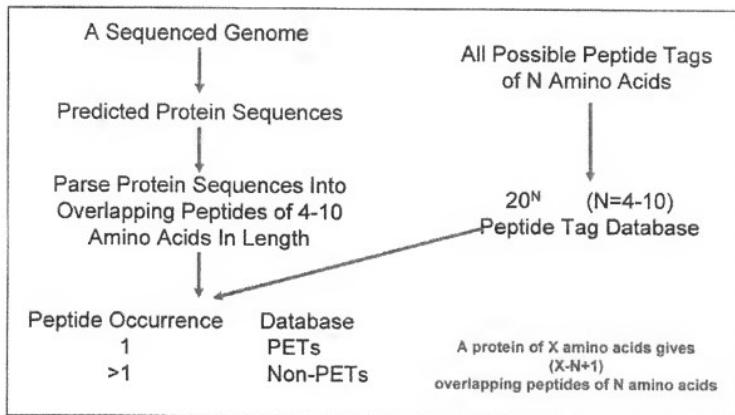


Figure 12

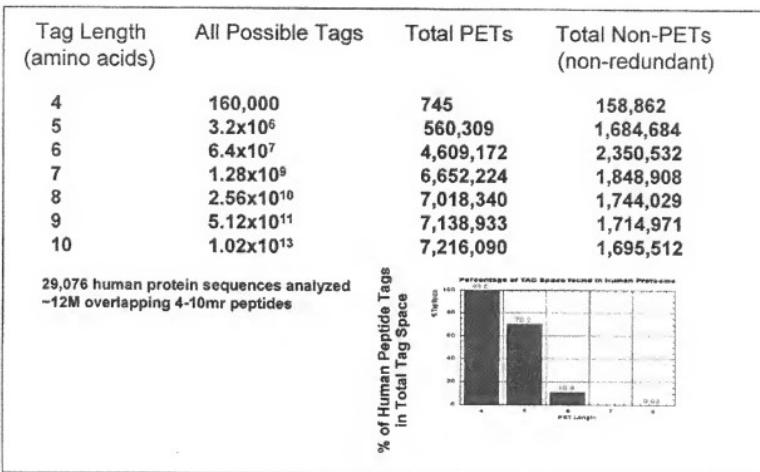


Figure 13

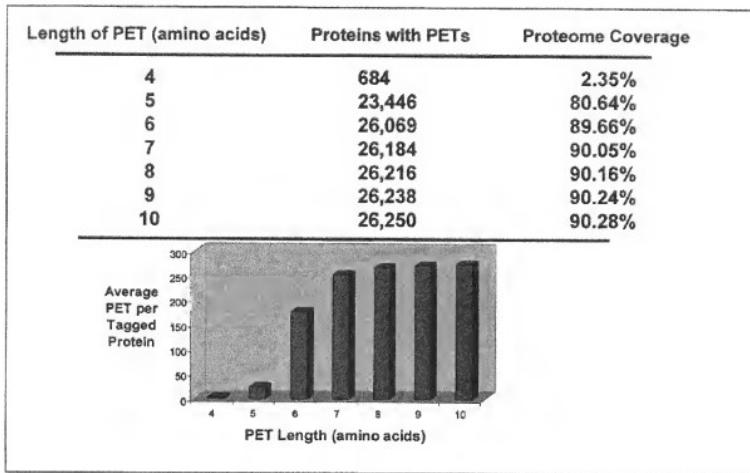


Figure 14

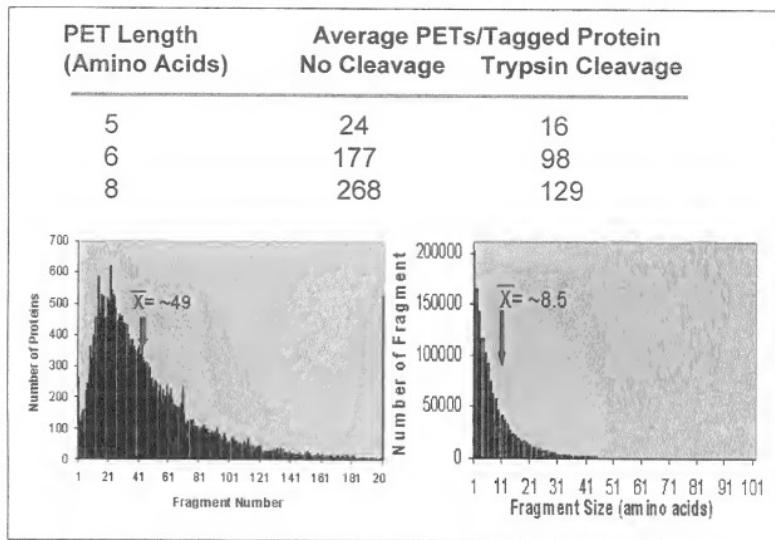


Figure 15

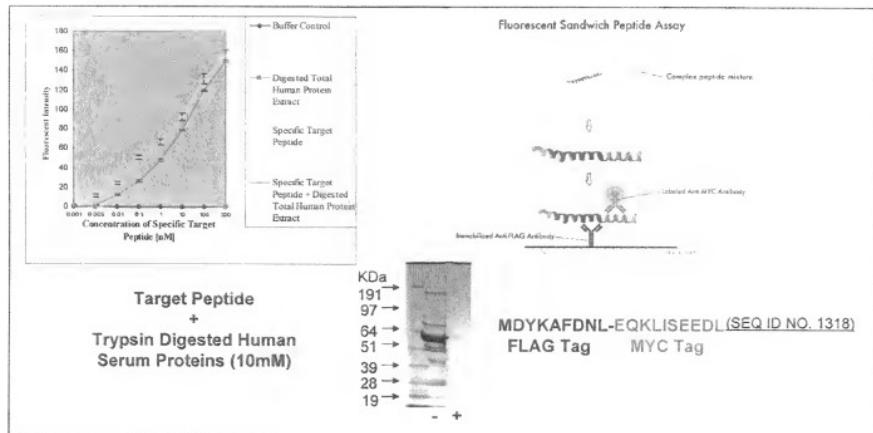


Figure 16

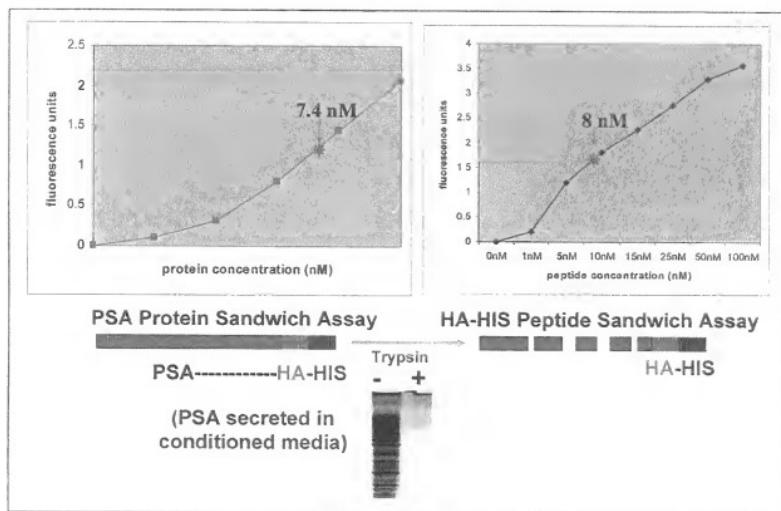


Figure 17

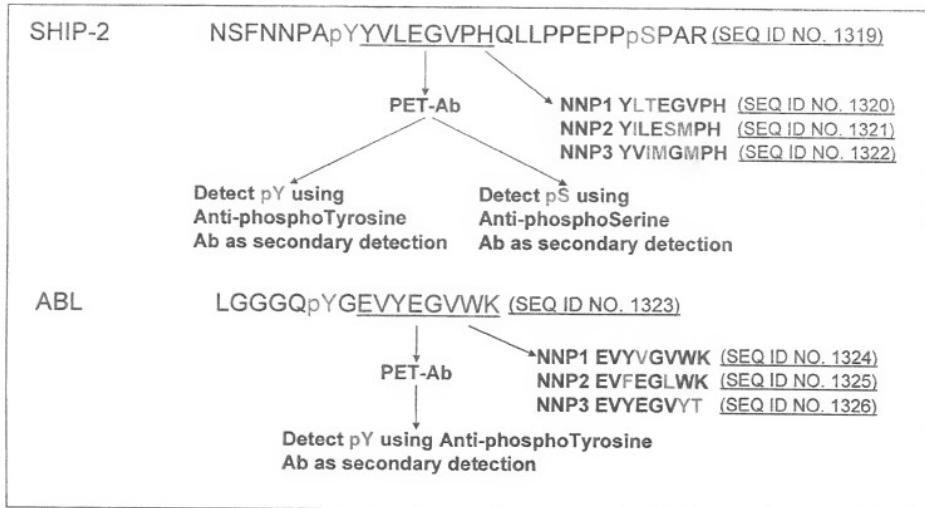
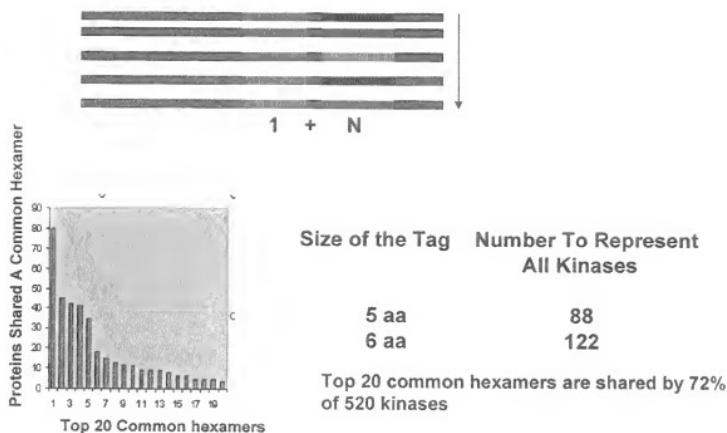


Figure 18



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Figure 19

Protein	Parental Tryptic Peptide	Also Detect
BRAF	WSGSHQFEQLSGSILWMAPEVIR* (SEQ ID NO_ 1327)	
DLK	MSFAGTVWMAPEVIR (SEQ ID NO_ 1328)	
GCK	SFIGTPTWMAPEVAVER (SEQ ID NO_ 1329)	
HH498	WMAPEVFTQCTR (SEQ ID NO_ 1330)	
HPK1	LSFIGTPTWMAPEVAVALK (SEQ ID NO_ 1331)	
LOK	DSFIGTPTWMAPEVVMCETMK (SEQ ID NO_ 1332)	KSH1, 2, HPK1, SIK
LZK	MSFAGTVANMAPEVIR (SEQ ID NO_ 1333)	
MA23K	SMHGTPTWMAPEVINESGYCR (SEQ ID NO_ 1334)	
MST1	NTVIGTPTFWMAPEVIVIQEIGYNCVR (SEQ ID NO_ 1335)	MST2
MST4	NTFVGTPFWMAPEVIQQSAYDSDK (SEQ ID NO_ 1336)	
MYO3A	NTSVGTPFWMAPEVIACEQQQLDTTYDAR (SEQ ID NO_ 1337)	MYO3B
MYO3B	NTSVGTPFWMAPEVIACEQQYDSSYDAR (SEQ ID NO_ 1338)	MYO3A
ZC1/HGK	NTFFIGTPTWMAPEVIACDENPDATYDVR (SEQ ID NO_ 1339)	ZC2, ZC3
OSR1	TFVGTGTPCWMAPEVMEQVR (SEQ ID NO_ 1340)	
PAK1	STMVGTPWMAPEVVTR (SEQ ID NO_ 1341)	PAK2, 3
PAK5	SLVGTPTWMAPEVISR (SEQ ID NO_ 1342)	PAK6
RAF1	WSGSQQVEQPTGSVLWMAPEVIR (SEQ ID NO_ 1343)	
STLK3	TFVGTGTPCWMAPEVMEQVR (SEQ ID NO_ 1344)	
TAO1	ASMASPANSFVGTPWMAPEVILAMDEGQYDGK (SEQ ID NO_ 1345)	TAO3
TAO2	ASIMAPANSFVGTPWMAPEVILAMDEGQYDGK (SEQ ID NO_ 1346)	
TESK1	EPLAVVGS PYWMAPEVLR (SEQ ID NO_ 1347)	
ZAK	TTHMSLVGTPFWMAPEVIQSLR (SEQ ID NO_ 1348)	
<b>BLUE = PET</b>		
<b>RED = Common Epitope</b>		

Figure 20

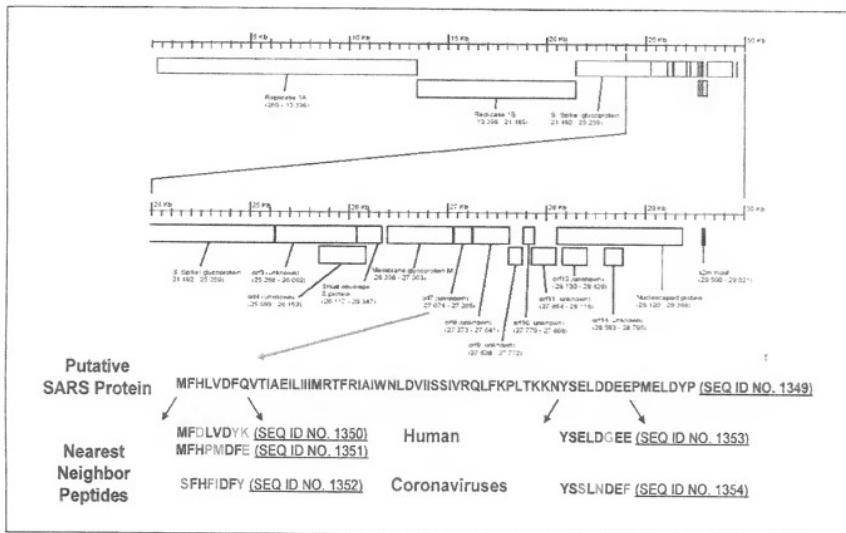
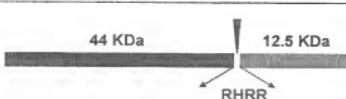


Figure 21



<b>TGF<math>\beta</math>-1</b>	RHRR*AL.. K*VLA LYNQHNP GASAAPCC VPQALEPL PIVYYVGR*K	(SEQ ID NO. 1355)	
NNP1	NHHSPGGS	(SEQ ID NO. 1356) EPLTILYY	(SEQ ID NO. 1359)
NNP2	QQHNPAAAN	(SEQ ID NO. 1357) DPLPVRYYY	(SEQ ID NO. 1360)
NNP3	NKHGPGVIS	(SEQ ID NO. 1358) EPLPSQYY	(SEQ ID NO. 1361)
<b>TGF<math>\beta</math>-2</b>	RKKR*AL...R*VLS LYNTINPEASASP CCVSQDLEPLT IILYYIGK*T	(SEQ ID NO. 1362)	
NNP1	NTLNPEAS	(SEQ ID NO. 1363) PQDLEPLT	(SEQ ID NO. 1366)
NNP2	NKLDPEAS	(SEQ ID NO. 1364) SEDLEPLA	(SEQ ID NO. 1367)
NNP3	NTANPERS	(SEQ ID NO. 1365) SQLDLDPMA	(SEQ ID NO. 1368)
<b>TGF<math>\beta</math>-3</b>	RKKR*AL...R*SAD TTTHSTVLGLYNT LNPEASASPCC VPQDLEPLT IILYYIGR*T	(SEQ ID NO. 1369)	
NNP1	SAHSTHST	(SEQ ID NO. 1370) NTINPEAS	(SEQ ID NO. 1373)
NNP2	SSDTTHAS	(SEQ ID NO. 1371) NKLDPEAS	(SEQ ID NO. 1374)
NNP3	AAEATHST	(SEQ ID NO. 1372) NTANPERS	(SEQ ID NO. 1375)
<b>TGF<math>\beta</math>-4</b>	MK*WAK*NWV LEPPGFLAYEC VGTCQQP PEALAFNWP FLGPR*Q	(SEQ ID NO. 1376)	
NNP1	NWAVDPPG	(SEQ ID NO. 1377) QPPEAFGF	(SEQ ID NO. 1380)
NNP2	HWVVSPPG	(SEQ ID NO. 1378) KPPEALAM	(SEQ ID NO. 1381)
NNP3	NWVRLPPG	(SEQ ID NO. 1379) QPPEAKKF	(SEQ ID NO. 1382)

Figure 22

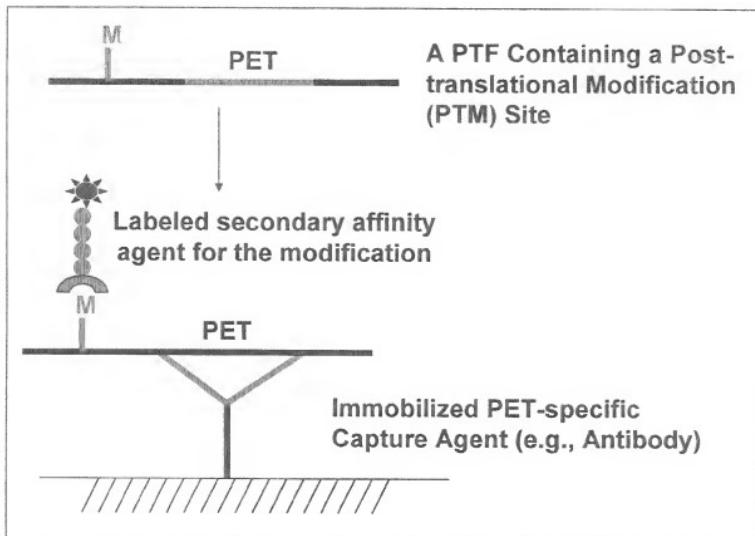


Figure 23

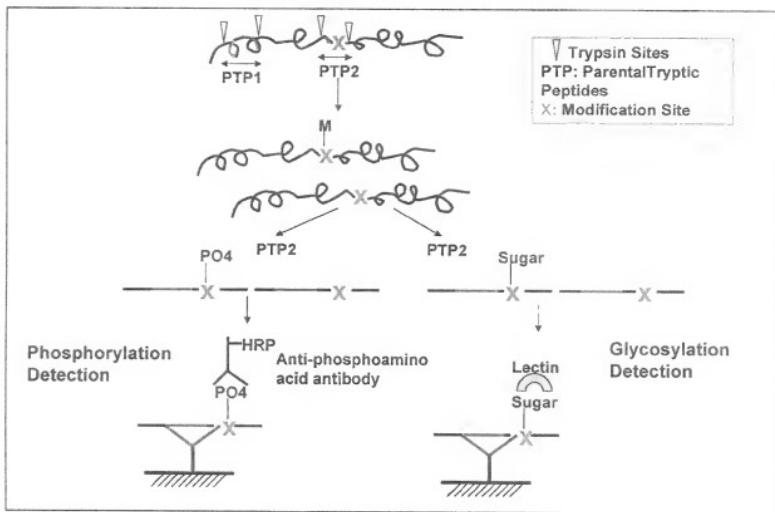


Figure 24

